

Patent Claims

1. A method for maintenance, in particular repair, of
gas turbines, in particular aeroengines, wherein
5 modules and/or assemblies and/or individual parts
of the gas turbines, in particular aeroengines,
are inspected and/or repaired, **characterized** in
that the repair is subdivided into at least two
repair steps, wherein modules and/or assemblies
10 and/or individual parts to be repaired of at least
one gas turbine are moved through repair stations
in order to move the modules and/or assemblies
and/or individual parts of the or each gas turbine
to repair stations adapted for this purpose in
15 order to carry out the repair steps.
2. The method as claimed in claim 1, **characterized** in
that the modules and/or assemblies and/or
individual parts are repaired in different repair
20 lines, with a decision being made after inspection
of the modules and/or assemblies and/or individual
parts on the repair line to which a module and/or
assembly and/or individual part to be repaired
will be sent.
- 25 3. The method as claimed in claim 1 or 2,
characterized in that the repair of the modules
and/or assemblies and/or individual parts in each
of the repair lines is subdivided into at least
30 two repair steps.
4. The method as claimed in claim 2 or 3,
characterized in that a coating-intensive repair
line and/or a welding-intensive repair line and/or
35 a non-welding-intensive repair line are/is
provided as repair lines.
5. The method as claimed in one or more of claims 1
to 4, **characterized** in that modules and/or

assemblies and/or individual parts of gas turbines, in particular aeroengines, are moved discontinuously, specifically on a cycle, through the repair stations or the repair lines.

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6. The method as claimed in one or more of claims 1 to 5, **characterized** in that two or more repair steps are carried out in succession within one repair line, wherein the modules and/or assemblies and/or individual parts are moved to matched repair stations in order to carry out the repair steps, wherein two or more identical repair stations are provided for at least some of the repair steps, such that the same repair steps can be carried out at the same time on different modules and/or assemblies and/or individual parts within one repair line.
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7. The method as claimed in one or more of claims 1 to 6, **characterized** in that, in addition to the repair stations in the repair lines, central repair stations are provided, wherein modules and/or assemblies and/or individual parts from different repair lines are passed to the central repair stations.
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8. The method as claimed in claim 7, **characterized** in that a heat treatment station and/or a washing station and/or an electroplating station are/is provided as central repair stations.
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9. The method as claimed in one or more of claims 1 to 8, **characterized** in that the modules and/or assemblies and/or individual parts are inspected after repair.
10. The method as claimed in one or more of claims 1 to 9, **characterized** in that the gas turbines, in particular aeroengines, are disassembled into

modules and/or assemblies and/or individual parts before repair.

- 5 11. The method as claimed in one or more of claims 1 to 10, **characterized** in that, before being disassembled, the gas turbines, in particular the aeroengines, are precleaned as a unit, and in that the modules and/or assemblies and/or individual parts are preferably cleaned again before repair.
- 10 12. The method as claimed in one or more of claims 1 to 11, **characterized** in that gas turbines, in particular aeroengines, are assembled from inspected and/or repaired and/or new modules and/or assemblies and/or individual parts after repair.
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